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TITLE : MANUFACTURE OF PREPREG

ABSTRACT : PURPOSE: To obtain an elongate prepreg with high productivity and good yield, by rolling a unidirectional prepreg together with a double-side releasable polyester film, and cutting the obtained roll along a special direction in connection with the axis of the roll.

CONSTITUTION: A unidirectional prepreg is rolled together with a double-side releasable polyester film, and the obtained roll is cut along the direction perpendicular to the axis of the roll. As reinforcing fiber can be mentioned carbon fiber, glass fiber, aramid fiber, etc., which are generally used as 300-12,000 strands. The strands are spread such that the weight per unit is 15-300g/m², and are arranged in one direction to form a sheet 300-1,500mm in width. Although the large the width, the better the productivity, if the width is greater than 1,500mm, the sheet tends to have uneven thickness, and therefore a prepreg with a width of 500-1,000mm is most preferable when both the productivity and the physical properties are taken into consideration. As a matrix resin for the prepreg is preferable a thermosetting resin in a view of the handleability and working and molding property.

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